

ERZIA



# SPACE HERITAGE

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FEBRUARY 2023



**Our mission is to contribute to your mission's success.**

ERZIA has an impressive history of supplying critical components in space industry equipment that are directly related to mission success. We have earned an enviable reputation in the space/areospace industry for designing and manufacturing high performance "space-qualified" RF and microwave devices that deliver as promised.

Today, ERZIA is fueling innovation and growth in the **NewSpace** industry with a smart selection of RF and microwave Commercial Off-The-Shelf (COTS) amplifiers. We have several available COTS amplifiers to help achieve a more rapid design, build, test, and launch for your next space mission.

**PROGRAM:** Chang'e 3 (CNSA)  
**DESTINATION:** Moon Surface



**RF Amplifier, 2 W, VHF**

**HARDWARE:**  
RF Amplifier for the AOTF Driver  
4 x Flight Models  
2 x EM  
✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** December 2013

**PROGRAM:** LISA Pathfinder



**RF Amplifier, 0.5 W, HF**

**HARDWARE:**  
RF Amplifier for the AO Modulator  
2 x Flight Models  
1 x Flight Spare  
✦ Full Space

**DELIVERY:** Delivered  
**LAUNCH:** December 2015

**PROGRAM:** Exomars



**RF Amplifier, 1 W, VHF**

**HARDWARE:**  
RF Amplifier & RF Passive Boards for the NOMAD Instrument.  
2 x Flight Models of Each  
2 x EQM of Each  
✦ Full Space

**DELIVERY:** Delivered  
**LAUNCH:** March 2016

**PROGRAM:** Chang'e 4 (CNSA)  
**DESTINATION:** Dark side of Moon Surface



**RF Amplifier, 2 W, VHF**

**HARDWARE:**  
RF Amplifier for the AOTF Driver  
4 x Flight Models  
2 x EM  
✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** December 2018

**PROGRAM:** Tianwen-1, Chinese Mars Exploration Program (CNSA)



**RF Amplifier, 1 W, VHF**

**HARDWARE:**  
RF Amplifier for the AOTF Driver  
4 x Flight Models  
2 x EM  
✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** 2020

**PROGRAM:** Chinese Moon Exploration Program



**RF Amplifier, 2 W, VHF**

**HARDWARE:**  
RF Amplifier  
2 x Flight Models  
2 x EM  
✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** 2020

**PROGRAM:** Chinese Earth Observation Program



**RF Amplifier, 2 W, VHF**

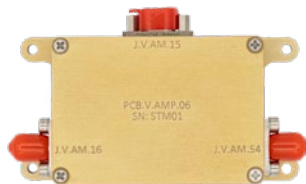
**HARDWARE:**

RF Amplifier  
12 x Flight Models  
12 x EM

✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** November 2020

**PROGRAM:** ALTIUS



**RF Amplifier, 1 W, VHF**

**HARDWARE:**

RF Amplifier for the AOTF Driver  
4 x Flight Models  
2 x EM

✦ Full Space

**DELIVERY:** Delivered  
**LAUNCH:** TBC

**PROGRAM:** CNSA



**RF Amplifier, 2 W, VHF**

**HARDWARE:**

RF Amplifier  
2x Flight Models  
2x EM

✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** TBC

**PROGRAM:** CNSA



**RF Amplifier, 2 W, VHF**

**HARDWARE:**

RF Amplifier  
7x Flight Models  
8x EM

✦ Tailored Full Space

**DELIVERY:** Delivered  
**LAUNCH:** TBC

**PROGRAM:** Undisclosed



**X-Band RF Amplifier, 10 W, X-Band**

**HARDWARE:**

X-Band RF Amplifier for Satellite to Earth Link.  
14 x FM  
2 x EM

✦ Full Space

**DELIVERY:** EM Delivered, FM TBC  
**LAUNCH:** TBC

**PROGRAM:** CubeRRT, NASA



**LNA, 1 to 40 GHz**

**HARDWARE:**

RF Low Noise Amplifier  
3 x Flight Models

✦ NewSpace, COTS Without DC

**DELIVERY:** Delivered  
**LAUNCH:** May 2018

**PROGRAM:** Mohammed Bin Rashid Space Centre (MBRSC)



**LNA, 2.7 to 3.1 GHz**

**HARDWARE:**

RF Low Noise Amplifier  
2 x Engineering Models

✦ NewSpace, COTS Without DC

**DELIVERY:** Delivered

**CUSTOMER:** Undisclosed



**HPA, 6-18 GHz, 10 W**

**HARDWARE:**

2 x ERZ-HPA-0600-1800-40-E

✦ NewSpace, COTS with 24-32 V DC

**DELIVERY:** November 2020

CUSTOMER: Undisclosed



HPA, 2-20 GHz, 5 W

HARDWARE:

2 x ERZ-HPA-0200-2000-37

NewSpace, COTS with 24-32 V DC

DELIVERY: November 2020

CUSTOMER: Undisclosed



HPA, 17 to 24 GHz, 2.5 W

HARDWARE:

2 x ERZ-HPA-1700-2400-34

NewSpace, COTS with 24-32 V DC

DELIVERY: October 2020

CUSTOMER: Undisclosed



HPA, 9 to 14 GHz, 2.5 W

HARDWARE:

2 x ERZ-HPA-0900-1400-34

NewSpace, COTS with 24-32 V DC

DELIVERY: November 2020

CUSTOMER: Undisclosed



LNA, 26 to 40 GHz

HARDWARE:

2 x ERZ-LNA-2600-4000-30-2.5

NewSpace, COTS with 24-32 V DC

DELIVERY: February 2021

CUSTOMER: Undisclosed



LNA, 26 to 40 GHz

HARDWARE:

2 x ERZ-LNA-2600-4000-50-2.5

NewSpace, COTS with 24-32 V DC

DELIVERY: April 2021

CUSTOMER: Undisclosed



LNA, 12.5 to 17 GHz

HARDWARE:

2 x ERZ-LNA-1250-1700-3-3

NewSpace, COTS with 24-32 V DC

DELIVERY: May 2021

CUSTOMER: Undisclosed



LNA, 7.14 to 7.23 GHz

HARDWARE:

5 x EM

8 x FM

NewSpace, New Design

DELIVERY: September 2022

CUSTOMER: Undisclosed



Tx/Rx Front End, X-Band

HARDWARE:

Undisclosed

NewSpace, New Design

DELIVERY: 2023

CUSTOMER: Undisclosed



Up/Down Converter

HARDWARE:

Undisclosed

Full Space, New Design

DELIVERY: 2024

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